

1997 Chevrolet S10 Pickup

D - ADJUSTMENTS - 4.3L 1997 ENGINE PERFORMANCE General Motors - On-Vehicle Adjustments - 4.3L

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ENGINE MECHANICAL

Before performing any on-vehicle adjustments to fuel or ignition systems, ensure engine mechanical condition is okay.

VALVE CLEARANCE

NOTE: All models are equipped with hydraulic lifters. Adjustments are not required.

IGNITION TIMING

NOTE: Ignition timing is controlled by control module and is not adjustable.

IDLE SPEED & MIXTURE

NOTE: DO NOT attempt to adjust idle mixture and idle speed. Both are controlled by Powertrain Control Module (PCM). Incorrect idle speeds are normally caused by dirty throttle plate or vacuum leaks. Ensure all vacuum components are functioning properly.

NOTE: Controlled idle speed and IAC count can be checked using scan tool. See CONTROLLED IDLE SPEED & IAC COUNT table.

CONTROLLED IDLE SPEED CHECK

1. Ensure no trouble code(s) are present, IAC system is okay, and ignition timing is correct. Block drive wheels. Apply parking brake. Connect Tech 1 scan tool to Data Link Connector (DLC). Put scan tool into OPEN mode.
2. Start engine and bring to normal operating temperature. Check for correct state of transmission range switch on scan tool. Check if idle speed and IAC valve pintle position (counts) are as specified. See CONTROLLED IDLE SPEED & IAC COUNT table.
3. If idle speed is not within specification, refer to the **TESTS W/O CODES - 4.3L** article.

CONTROLLED IDLE SPEED & IAC COUNT

Application	Idle RPM	(1) IAC Counts
Under 8500 GVW		
Auto. Trans. (2)	565-615	50-30
Man. Trans. (3)	525-575	50-30

Over 8500 GVW		
Auto. Trans. ⁽²⁾	625-675	50-30
Man. Trans. ⁽³⁾	675-725	50-30
(1) Add 2 counts for engines with less than 500 miles. Add 2 counts for every 1000 ft. above sea level. (2) Automatic transmission in Drive. (3) Manual transmission in Neutral. Tech 1 scan tool will display "RDL" with transmission in Neutral.		

THROTTLE POSITION (TP) SENSOR

TP sensor output voltage should be .85 volt or less at idle (closed throttle) and is not adjustable.